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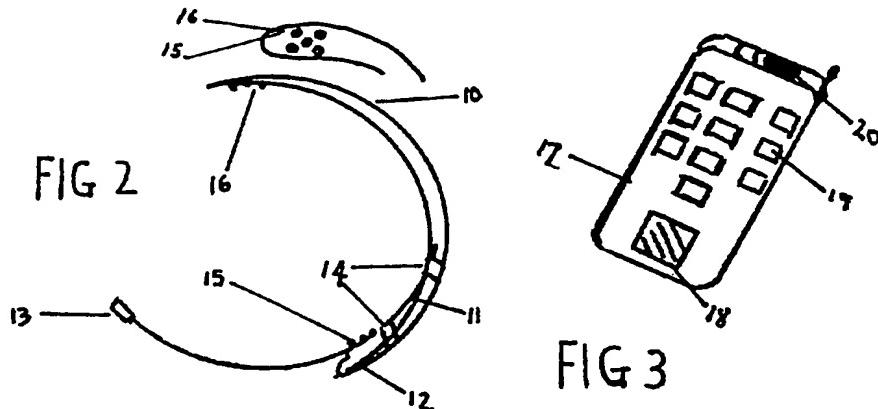
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H4J JK J30H J30K J36Q

(56) Documents Cited
GB 2277422 A GB 1324058 A EP 0464011 A1
US 5191602 A

(58) Field of Search
UK CL (Edition N) H4J JDS JK JL
INT CL⁶ H04M 1/02 1/03 1/04 1/05 1/60 1/62
Online databases : wpi, jpio

(54) Hands-free headset for mobile telephones

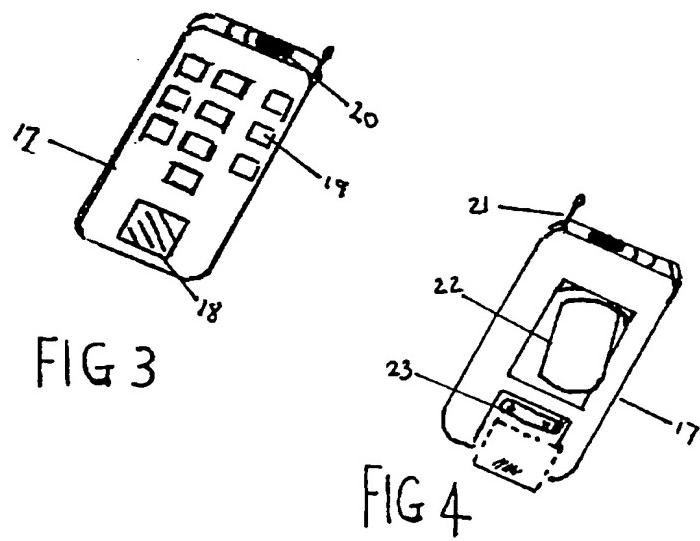
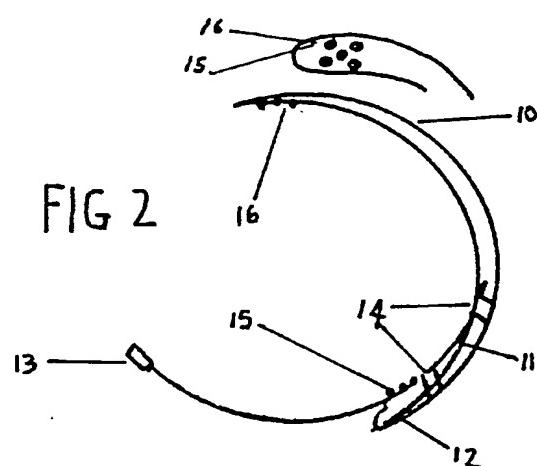
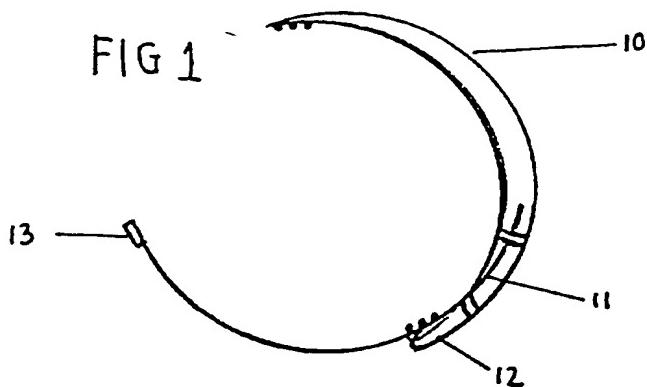
(57) The microphone and earphone portions of a mobile telephone are arranged in a headset to allow the user hands-free use of the telephone. The main body of the telephone, which may be clipped to a belt or carried in a pocket, comprises the remainder of the telephone set and includes a keypad, a battery pack and a ringer.



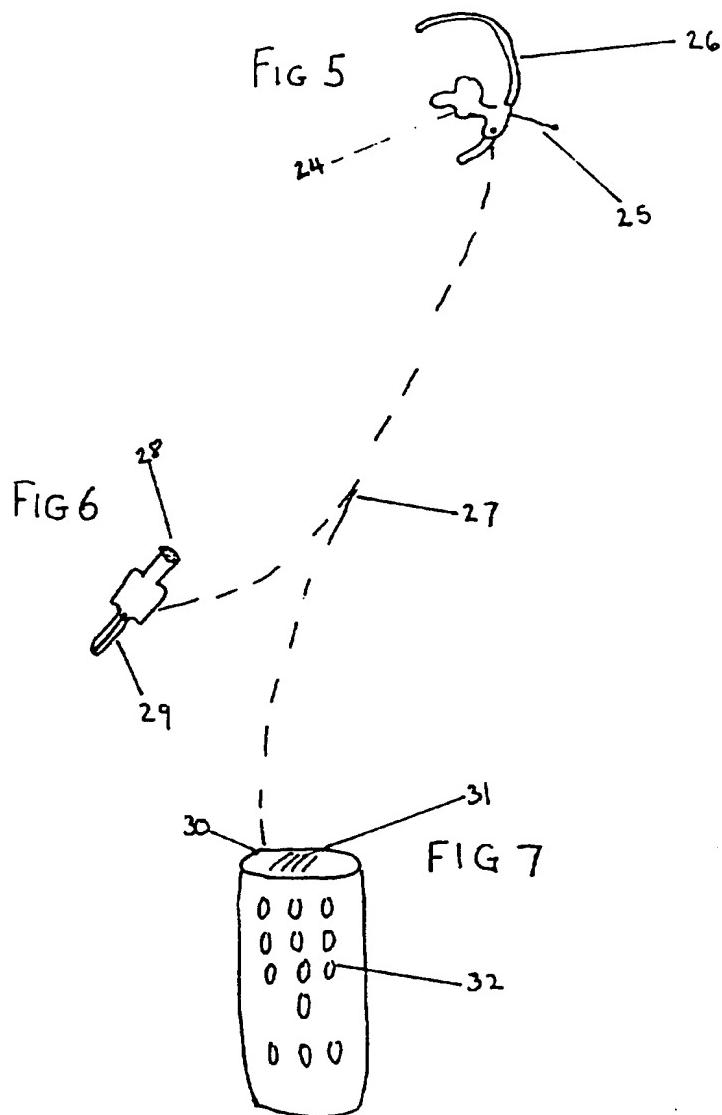
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HANDS FREE PHONE

This invention relates to a hands free telephone communication system unlike standard mobile telephones handheld to transmit, receive as a one piece unit.

The Hands free telephone communication system is relatively inexpensive to manufacture using present technology.

Drawing 1 of 2

According to the invention there is a head set worn on the head comprising of builtin earphones, signal pic up acril, mic leaving hands free for other tasks. The mobile telephone box comprises of touchtone dial and functional key pad, aeril and slide switch feature reducing the need of three individual keys for simpler operation-option.

Drawing 2 of 2

According to the invention there is a ear piece receiver connected by a lead to a mic piece transmitter. Connected by a lead to mobile telephone box comprising of a touchtone dial pad full functional aeril, beeper system. Similar to FIG 4 Drawing 1 of 2 operates on battery (ref 23) and has built in clip for attachment to personal clothing ref 22

A:PHONE

A specific embodiment of the invention is now described by way of example with reference to the accompanying drawings in which:-

FIG 1 Shows in perspective the inventions hand free headset ref 10 hand free mic arm 11. Signal pic up 12 and mic 13 in example position.

FIG 2 Illustrates in perspective the inventions hand free telephone communication system. Which enables user to communicate with incoming callers and speak to persons rang and to people near user leaving hands free for other tasks. A magnification of how ear phones are set within head set is shown just above Figure 2 reference 16.

FIG 3 Illustrates in perspective the inventions hands free mobile telephone transmitter, receiver 17 and its functions 18-20 on box.

FIG 4 Illustrates in relative perspective the inventions hand free mobile telephone transmitter, receiver Box 17. and the attachment of aerial ref 21, body clip 22, battery casement 23.

Referring to the drawings the inventions hands free telephone communication system Figures 1, 2 comprises of ref 10 a headset. ref 11 the mic adjustable positioning arm relatively secured under 14 two bridges secured firmly to headset. ref 12 the built-in positioning of signal pic up aerial linked by remote to Figure 3, 4 reference 13 refers to A mic p.&c enabling user to speak to person called or calling. 15, 16 refer to built-in ear phones

FIG 3 comprises of the mobile telephone transmitter receiver box 17. A speaker box sounding pager beeper and ringer 18. A full function key pad 19. A sliding switch in three positions 20 switches off beeper and ringer. Switches on beeper, ringer and switches to forward incoming calls to a base answerphone message centre. FIG 4 shows aerial 21 body clip 22, battery casement 23.

A:PHONE

CLAIMS

- 1 A hands free telephone communication system comprises of a mobile phone box.
And with separate mouth, ear phone pieces.

Enabling user to carry on with hands on tasks.

This invention incorporates technology in use and available at present and is
technically simple to manufacture and market.
- 2 This invention as claimed in Claim 1 is suitable for persons with disabilities.
- 3 This invention as claimed in Claim 1, 2 can be applied for use in commercial
applications.
- 4 This invention as claimed in Claim 1, 2, 3 is suitable for security by way of hands
free communication, enforcement.
- 5 This invention will greatly reduce the use of this communication complete system
by the way of the close contact with the user when worn but not in actual use. As
claimed in Claims 1, 2, 3 and 4.
- 6 This invention a handsfree telephone communication mobile phone box as claimed
in Claims 1, 2, 3, 4 and 5 may be secured to users Trouser waist, belt, pocket
inside coat pocket by means of a attachment of body clip to mobile phone-system-
box.
- 7 This invention as claimed in Claim 1, 2, 3, 4, 5 and 6 can be applicational as a
walkie talkie-intercom system incorporating many headsets and only one or more
base transmitting, receiving boxes not shown.

A:PHONE

Patents Act 1977
Examiner's report to the Comptroller under Section 17
(The Search report)

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Relevant Technical Fields

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(ii) Int Cl (Ed.6) H04M 1/02, 1/03, 1/04, 1/05, 1/60, 1/62

Search Examiner
MR P J EASTERFIELD

Databases (see below)

(i) UK Patent Office collections of GB, EP, WO and US patent specifications.

Date of completion of Search
18 JANUARY 1995

(ii) ONLINE DATABASES: WPI, JAPIO

Documents considered relevant following a search in respect of Claims :-
1 TO 7

Categories of documents

- X: Document indicating lack of novelty or of inventive step. P: Document published on or after the declared priority date but before the filing date of the present application.
- Y: Document indicating lack of inventive step if combined with one or more other documents of the same category. E: Patent document published on or after, but with priority date earlier than, the filing date of the present application.
- A: Document indicating technological background and/or state of the art. &: Member of the same patent family; corresponding document.

Category	Identity of document and relevant passages		Relevant to claim(s)
E,X	GB 2277422 A	(UNIVERSAL EXCHANGE) whole document	1 to 6
X	GB 1324058 A	(I.S.E.C.) see Figure 9 and page 2 lines 73 to 92	1 to 6
X	EP 0464011 A1	(ERICSSON) whole document	1 to 6
X	US 5191602 A	(REGEN ET AL) see Figure 12	1 to 6

Databases: The UK Patent Office database comprises classified collections of GB, EP, WO and US patent specifications as outlined periodically in the Official Journal (Patents). The on-line databases considered for search are also listed periodically in the Official Journal (Patents).

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